

# Material Safety Data Sheet Scalebuster

## Section 1. Identification

**Product Name:** Scalebuster  
**Description:** (2-Amino-ethyl)-urea hydrochloride  
**Recommended Use:** Scale and Rust remover  
**Supplier:** Genesis Industrial Pty Ltd, 6 Ginger St., Paget 4740  
**Phone No:** 0424785349  
Emergency Contact 0424 785349  
**Other Names:** Carbamide Hydrochloride

**Emergency Phone No - 13 11 26 – Poisons Information Centre**

## Section 2. Hazards Identification

Classified as hazardous according to the criteria of NOHSC

**Risk phrases:**

R36 Irritating to eyes and broken skin

**Safety phrases:**

S2 Keep out of reach of children.

S25 Avoid contact with eyes.

**Hazard Category** Non dangerous goods.

**Symptoms & Effects** May dry skin on prolonged contact with concentrate.

**Other Hazard Information:** Nil

## Section 3. Composition Information

Ingredient Name Information on Composition	CAS No	Proportions
Ingredients Name Carbamide Hydrochloride	CAS 506-89-8	Proportion 100%

## Section 4. First Aid

**Eye Contact:**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15

minutes. Cold water may be used. Get medical attention.

**Skin Contact:**

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient.

Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse.

Thoroughly clean shoes before reuse. Get medical attention.

**Serious Skin Contact:**

Wash with soap, Seek medical attention.

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:** Not available.

**Ingestion:**

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Serious Ingestion:** Not available.

## Section 5. Fire Fighting Measures

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** Not available.

**Flash Points:** Not available.

**Flammable Limits:** Not available.

**Products of Combustion:** These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>...).

**Fire Hazards in Presence of Various Substances:**

Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.

**Explosion Hazards in Presence of Various Substances:**

Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks.

**Fire Fighting Media and Instructions:**

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:**

When heated to decomposition it emits toxic and irritating fumes of Hydrogen chloride, carbon monoxide, carbon dioxide, nitrogen oxides, and ammonia. As with most organic solids, fire is possible at elevated temperatures.

## Section 6. Accidental Release Measures

**Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:**

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## Section 7. Handling and Storage

**Precautions:**

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, alkalis.

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area.

## Section 8. Exposure Controls and Personal Protection

**Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection:**

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**Personal Protection in Case of a Large Spill:**

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not available.

**Other information** No Biological Limit Value allocated.

## Section 9. Physical and Chemical Properties

<b>Appearance</b>	Clear Green Liquid
<b>Odour</b>	Slight Acid
<b>Boiling Point</b>	105C
<b>pH</b>	1.0.5 (neat),
<b>Solubility in Water</b>	Infinitely soluble in water
<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	1.05 @ 20 0C
<b>Physical State</b>	Liquid.
<b>Flash Point</b>	Non flammable
<b>Flammability</b>	Non flammable
<b>Flammable Limits LEL</b>	Non flammable
<b>Flammable Limits UEL</b>	Non flammable

## Section 10. Stability and Reactivity

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Excess heat, incompatible materials, moisture

**Incompatibility with various substances:** Reactive with oxidizing agents, alkalis.

**Corrosivity:** Not available.

**Special Remarks on Reactivity:**

Incompatible with strong alkali, hypochlorites (chlorine bleach), oxidizers. Heating above 230 F/110 C results in exothermic decomposition with rapid release of carbon dioxide gas.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

## Section 11. Toxicological Information

**Routes of Entry:** Inhalation. Ingestion.

**Toxicity to Animals:**

LD50: Not available. LC50: Not available.

**Chronic Effects on Humans:** Not available.

**Other Toxic Effects on Humans:** Hazardous in case of eye contact (irritant), or ingestion, or inhalation (lung irritant).

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** May cause adverse reproductive effects based on animal test data

**Special Remarks on other Toxic Effects on Humans:**

Acute Potential Health Effects: Skin: Causes skin irritation. Eyes: Causes eye irritation and severe damage. Inhalation: Causes severe irritation to the respiratory tract with sore throat, coughing, shortness of breath, and delayed lung edema. Ingestion: May be harmful if swallowed. Causes gastrointestinal tract irritation with nausea, vomiting and diarrhea.

## Section 12. Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The product itself and its products of degradation are not toxic.

**Special Remarks on the Products of Biodegradation:** Not available.

## Section 13. Disposal Considerations

**Waste Disposal** Refer to State Territory Land Waste Management Authority.

## Section 14. Transport Information

**Transport Information** Not classified as Dangerous Goods according to the ADGC.

## Section 15. Regulatory Information

**Poisons Schedule** N/A

**Hazard Category** S2 Keep out of reach of children.

**AICS (Australia)** All the components of this product are listed on the Australian Inventory of Chemical Substances (AICS).

## Section 9. Other Information

*This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user must review this MSDS in the context of how the product will be handled in the workplace and in conjunction with other materials. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.*

**Contact Person/Point** Genesis Industrial Pty Ltd, Technical Manager 0424 785349

MSDS Date: 9<sup>th</sup> May 2012